

EXHIBIT A

Fischer sequence
IVALPXGMLK

SEQ ID NO: 2 (single letter sequence)
YFPPPAAKEDFLGCLVKEIPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVKPIYIVTPTNASHIQSAVVC
GRRHGVRIRVRSGGHDYEGLSYRSLQPEEFAVVDSLKMRAVWVDGKARTAWVDSGAQLGELYYAIHKASTV
LAFPAGVCPTIGVGGNFAGGGFGMILLRKYGIAAEVNDVKLVDANGTLHDKKSMDHFVAVRGGGGESFG
IVVAWKVRLLPVPPTVTFKIPKKASEGAVDIINRWQVVAQPLPDDLMIRVIAQGPTATFEAMYLGTQCTL
TPMMSSKFPELMNASHCNEMSWIQSIPFVHLGRDNIEDDLLNRNNTFKPFAEYKSDYVYEPFPKEVWEQ
IFSTWLKPGAGIMIFDPYGATISATPEWATPFPHRKGVLFNIQYVNYWFAPGAGAAPLSWSKEIYNMMEP
YVSKNPRQAYANYRDIDLGRNEVVNDVTFSSGLVWGQKYFKGNFQRLAITKGKDPTDYFRNEQSIPPLI
KKY

SIM+LALNVIEW analysis

37.5% identity in 8 residues overlap; Score: 22.0; Gap frequency: 0.0%

Fischer, 1 IVALPXGM
Phlp4 (#2), 142 VLAfpAGV
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SEQ ID NO: 4 (single letter sequence)
YFPPPAAKEDFLGCLVKEIPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVKPIYIVTPTNASHIQSAVVC
GRRHGVRIRVRSGGHDYEGLSYRSLQPEEFAVVDSLKMRAVWVDGKARTAWVDSGAQLGELYYAIHKASPV
LAFPAGVCPTIGVGGNFAGGGFGMILLRKYGIAAEVNDVKLVDANGTLHDKKSMDHFVAVRGGGGESFG
IVVAWKVRLLPVPPTVTFKIPKKASEGAVDIINRWQVVAQPLPDDLMIRVIAQGPTATFEAMYLGTQCTL
TPMMSSKFPELMNASHCNEMSWIQSIPFVHLGRDNIEDDLLNRNNTFKPFAEYKSDYVYEPFPKEVWEQ
IFSTWLKPGAGIMIFDPYGATISATPEWATPFPHRKGVLFNIQYVNYWFAPGAGAAPLSWSKEIYNMMEP
YVSKNPRQAYANYRDIDLGRNEVVNDVTFSSGLVWGQKYFKGNFQRLAITKGKDPTDYFRNEQSIPPLI
KKY

SIM+LALNVIEW analysis

37.5% identity in 8 residues overlap; Score: 22.0; Gap frequency: 0.0%

Fischer, 1 IVALPXGM
Phlp4 (#4), 142 VLAfpAGV
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SEQ ID NO: 6 (single letter sequence)
YFPPPAAKEDFLGCLVKEIPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVKPLYIITPTNVSHIQSAVVC
GRRHSVRIRVRSGGHDYEGLSYRSLQPETFAVVDLNMRAVWVDGKARTAWVDSGAQLGELYYAIYKASPT
LAfpAGVCPTIGVGGNFAGGGFGMILLRKYGIAAEVNDVKLVDANGKLHDKKSMDHFVAVRGGGGESFG
IVVAWQVKLLPVPPPTVTFKISKTVSEGAVDIINKWQVVAQPLPADLMIRIIAQGPATFEAMYLGTCKTL
TPLMSSKFPELMNPSHCNEMSWIQSIPFVHLGRDALEDDLLNRNNNSFKPFAEYKSDYVYQPFPKTWWEQ
ILNTWLKVPGAGIMIFDPYGATISATPESATPFPHRKGVLFNIQYVNYWFAPGAAAAPLSWSKDIYNMMEP
YVSKNPRQAYANYRDIDLGRNEVVNDVTFSSGLVWGQKYFKGNFQRLAITKGKDPTDYFRNEQSIPPLI
KKY

SIM+LALNVIEW analysis

42.9% identity in 7 residues overlap; Score: 19.0; Gap frequency: 0.0%

Fischer, 2 VALPXGM
Phlp4 (#6), 143 LAFPAGV
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